

Fig.2

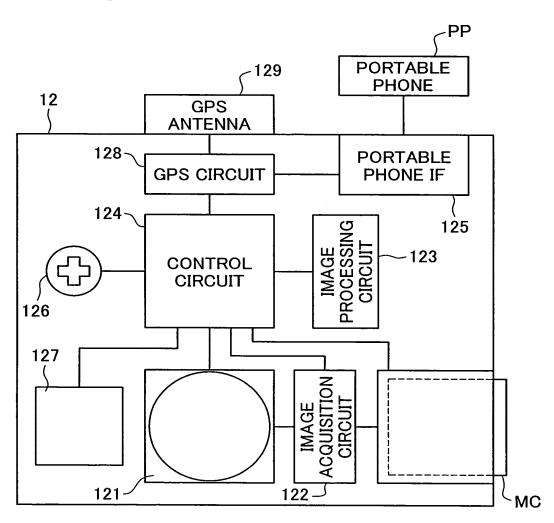
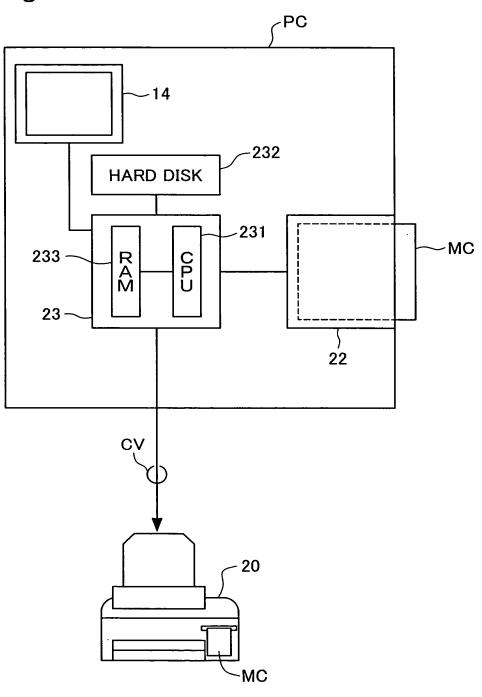
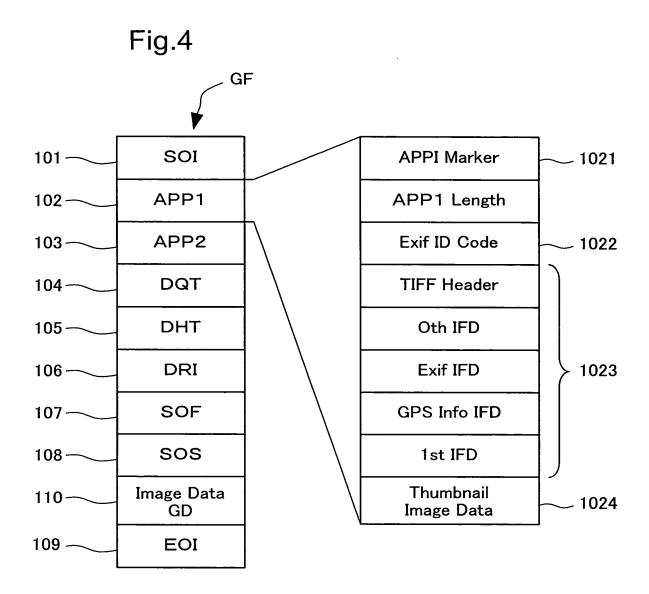


Fig.3





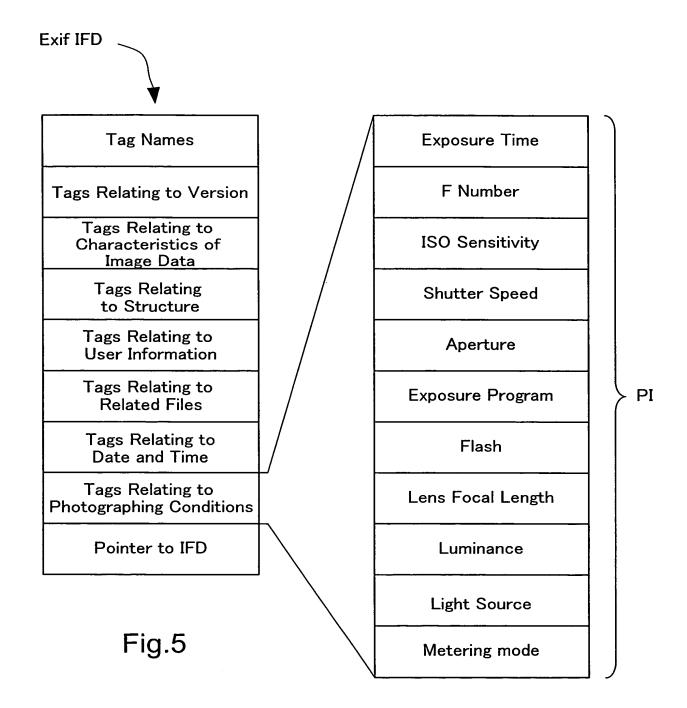
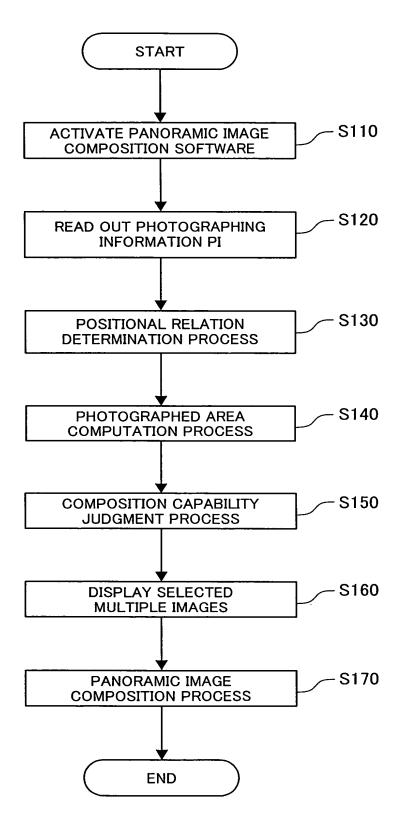


Fig.6

GPS Info IFD

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2 GPSLatitude GPS Latitude (degree, minute, second) 3 GPSLongitudeRef GPS EW Longitude 4 GPSLongitude GPS Longitude (degree, minute, second) 5 GPSAltitudeRef GPS Altitude Reference 6 GPSAltitude GPS Altitude (m) 7 GPSTimeStamp GPS Time(atomic clock) 8 GPSSatellites GPS Satellites used for measurement 9 GPS Satellites GPS Receiver status 10 GPSMeasureMode GPS Measurement Mode 11 GPSDOP Measurement Mode 11 GPSDOP Measurement precision 12 GPSSpeedRef Speed of GPS receiver 14 GPSTrackRef Reference for direction of movement 15 GPSTrack 16 GPSImgDirectionRef Reference for direction of image 17 GPSImgDirection Direction of image 18 GPSMapDatum Geodetic survey data used 19 GPSDestLatitudeRef Reference for latitude of destination 20 GPSDestLatitude Latitude of destination (degree, minute, second) 21 GPSDestLongitude Congitude of destination 22 GPSDestLongitude Reference for bearing of destination 24 GPSBearing Bearing of destination (degree, minute, second) 25 GPSDestDistanceRef Reference for Distance to destination 26 GPSDestDistance 27 GPSProcessingMethod Name of GPS Area 29 GPSDateStamp GPS Date	0	GPSVersionID	GPS Tag Version
3 GPSLongitudeRef GPS EW Longitude 4 GPSLongitude GPS Longitude (degree, minute, second) 5 GPSAltitudeRef GPS Altitude Reference 6 GPSAltitude	1	GPSLatitudeRef	GPS NS Latitude
4 GPSLongitude GPS Longitude (degree, minute, second) 5 GPSAltitudeRef GPS Altitude Reference 6 GPSAltitude GPS Altitude (m) 7 GPSTimeStamp GPS Time(atomic clock) 8 GPSSatellites GPS Satellites used for measurement 9 GPSStatus GPS Receiver status 10 GPSMeasureMode GPS Measurement Mode 11 GPSDOP Measurement precision 12 GPSSpeedRef Speed unit 13 GPSSpeed Speed of GPS receiver 14 GPSTrackRef Reference for direction of movement 15 GPSImgDirectionRef Reference for direction of image 17 GPSImgDirection Direction of image 18 GPSMapDatum Geodetic survey data used 19 GPSDestLatitudeRef Reference for latitude of destination 20 GPSDestLongitude Latitude of destination (degree, minute, second) 21 GPSDestLongitude Longitude of destination 22 GPSDestLongitude Reference for bearing of destination 24 GPSBearing Bearing of destination (degree, minute, second) 25 GPSDestDistanceRef Reference for Distance to destination 26 GPSDestDistance Distance to destination 27 GPSProcessingMethod Name of GPS Processing Method 28 GPSDateStamp GPS Date	2	GPSLatitude	GPS Latitude (degree, minute, second)
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6 GPSAltitude GPS Altitude(m) 7 GPSTimeStamp GPS Time(atomic clock) 8 GPSSatellites GPS Satellites used for measurement 9 GPSStatus GPS Receiver status 10 GPSMeasureMode GPS Measurement Mode 11 GPSDOP Measurement precision 12 GPSSpeedRef Speed unit 13 GPSSpeed Speed of GPS receiver 14 GPSTrackRef Reference for direction of movement 15 GPSTrack Direction of movement 16 GPSImgDirectionRef Reference for direction of image 17 GPSImgDirection Direction of image 18 GPSMapDatum Geodetic survey data used 19 GPSDestLatitudeRef Reference for latitude of destination 20 GPSDestLatitude Latitude of destination (degree, minute, second) 21 GPSDestLongitude Longitude of destination 22 GPSDestLongitude 23 GPSBearingRef Reference for bearing of destination 24 GPSBearing Bearing of destination (degree, minute, second) 25 GPSDestDistanceRef Reference for Distance to destination 26 GPSDestDistance Distance to destination 27 GPSProcessingMethod Name of GPS Processing Method 28 GPSAreaInformation Name of GPS Area	4	GPSLongitude	GPS Longitude (degree, minute, second)
7 GPSTimeStamp GPS Time(atomic clock) 8 GPSSatellites GPS Satellites used for measurement 9 GPSStatus GPS Receiver status 10 GPSMeasureMode GPS Measurement Mode 11 GPSDOP Measurement precision 12 GPSSpeedRef Speed unit 13 GPSSpeed Speed of GPS receiver 14 GPSTrackRef Reference for direction of movement 15 GPSImgDirectionRef Reference for direction of image 17 GPSImgDirection Direction of image 18 GPSMapDatum Geodetic survey data used 19 GPSDestLatitudeRef Reference for latitude of destination 20 GPSDestLatitude Latitude of destination (degree, minute, second) 21 GPSDestLongitudeRef Reference for longitude of destination 22 GPSDestLongitude Longitude of destination (degree, minute, second) 23 GPSBearingRef Reference for bearing of destination 24 GPSBearing Bearing of destination (degree, minute, second) 25 GPSDestDistanceRef Reference for Distance to destination 26 GPSDestDistance Distance to destination 27 GPSProcessingMethod Name of GPS Processing Method 28 GPSAreaInformation Name of GPS Area 29 GPSDateStamp GPS Date	5	GPSAltitudeRef	GPS Altitude Reference
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9 GPSStatus GPS Receiver status 10 GPSMeasureMode GPS Measurement Mode 11 GPSDOP Measurement precision 12 GPSSpeedRef Speed unit 13 GPSSpeed Speed of GPS receiver 14 GPSTrackRef Reference for direction of movement 15 GPSImgDirectionRef Reference for direction of image 17 GPSImgDirection Direction of image 18 GPSMapDatum Geodetic survey data used 19 GPSDestLatitudeRef Reference for latitude of destination 20 GPSDestLatitude Latitude of destination (degree, minute, second) 21 GPSDestLongitudeRef Reference for longitude of destination 22 GPSDestLongitude Longitude of destination (degree, minute, second) 23 GPSBearing Reference for bearing of destination 24 GPSDestDistanceRef Reference for Distance to destination 25 GPSDestDistance Distance to destination 26 GPSDestDistance Distance to destination 27 GPSProcessingMethod Name of GPS Processing Method 28 GPSDateStamp GPS Date	7	GPSTimeStamp	GPS Time(atomic clock)
10 GPSMeasureMode GPS Measurement Mode 11 GPSDOP Measurement precision 12 GPSSpeedRef Speed unit 13 GPSSpeed Speed of GPS receiver 14 GPSTrackRef Reference for direction of movement 15 GPSImgDirectionRef Reference for direction of image 17 GPSImgDirection Direction of image 18 GPSMapDatum Geodetic survey data used 19 GPSDestLatitudeRef Reference for latitude of destination 20 GPSDestLatitude Latitude of destination (degree, minute, second) 21 GPSDestLongitude Reference for longitude of destination 22 GPSDestLongitude Reference for bearing of destination 23 GPSBearing Bearing of destination (degree, minute, second) 25 GPSDestDistanceRef Reference for Distance to destination 26 GPSDestDistance Distance to destination 27 GPSProcessingMethod Name of GPS Processing Method 28 GPSDateStamp GPS Date	8	GPSSatellites	GPS Satellites used for measurement
11 GPSDOP Measurement precision 12 GPSSpeedRef Speed unit 13 GPSSpeed Speed of GPS receiver 14 GPSTrackRef Reference for direction of movement 15 GPSImgDirectionRef Reference for direction of image 17 GPSImgDirection Direction of image 18 GPSMapDatum Geodetic survey data used 19 GPSDestLatitudeRef Reference for latitude of destination 20 GPSDestLatitude Latitude of destination (degree, minute, second) 21 GPSDestLongitudeRef Reference for longitude of destination 22 GPSDestLongitude Longitude of destination (degree, minute, second) 23 GPSBearingRef Reference for bearing of destination 24 GPSBearing Bearing of destination (degree, minute, second) 25 GPSDestDistanceRef Reference for Distance to destination 26 GPSDestDistance Distance to destination 27 GPSProcessingMethod Name of GPS Processing Method 28 GPSAreaInformation Name of GPS Area 29 GPSDateStamp GPS Date	9	GPSStatus	GPS Receiver status
12 GPSSpeedRef Speed unit 13 GPSSpeed Speed of GPS receiver 14 GPSTrackRef Reference for direction of movement 15 GPSTrack Direction of movement 16 GPSImgDirectionRef Reference for direction of image 17 GPSImgDirection Direction of image 18 GPSMapDatum Geodetic survey data used 19 GPSDestLatitudeRef Reference for latitude of destination 20 GPSDestLongitudeRef Reference for longitude of destination 21 GPSDestLongitude Longitude of destination 22 GPSDestLongitude Longitude of destination 23 GPSBearingRef Reference for bearing of destination 24 GPSBearing Bearing of destination (degree, minute, second) 25 GPSDestDistanceRef Reference for Distance to destination 26 GPSDestDistance Distance to destination 27 GPSProcessingMethod Name of GPS Processing Method 28 GPSAreaInformation Name of GPS Area 29 GPSDateStamp GPS Date	10	GPSMeasureMode	GPS Measurement Mode
13 GPSSpeed Speed of GPS receiver 14 GPSTrackRef Reference for direction of movement 15 GPSImgDirectionRef Reference for direction of image 17 GPSImgDirection Direction of image 18 GPSMapDatum Geodetic survey data used 19 GPSDestLatitudeRef Reference for latitude of destination 20 GPSDestLatitude Latitude of destination (degree, minute, second) 21 GPSDestLongitudeRef Reference for longitude of destination 22 GPSDestLongitude Longitude of destination (degree, minute, second) 23 GPSBearingRef Reference for bearing of destination 24 GPSBearing Bearing of destination (degree, minute, second) 25 GPSDestDistanceRef Reference for Distance to destination 26 GPSDestDistance Distance to destination 27 GPSProcessingMethod Name of GPS Processing Method 28 GPSAreaInformation Name of GPS Area 29 GPSDateStamp GPS Date	11	GPSDOP	Measurement precision
14 GPSTrackRef Reference for direction of movement 15 GPSTrack Direction of movement 16 GPSImgDirectionRef Reference for direction of image 17 GPSImgDirection Direction of image 18 GPSMapDatum Geodetic survey data used 19 GPSDestLatitudeRef Reference for latitude of destination 20 GPSDestLatitude Latitude of destination (degree, minute, second) 21 GPSDestLongitudeRef Reference for longitude of destination 22 GPSDestLongitude Longitude of destination(degree, minute, second) 23 GPSBearingRef Reference for bearing of destination 24 GPSBearing Bearing of destination (degree, minute, second) 25 GPSDestDistanceRef Reference for Distance to destination 26 GPSDestDistance Distance to destination 27 GPSProcessingMethod Name of GPS Processing Method 28 GPSAreaInformation Name of GPS Area 29 GPSDateStamp GPS Date	12	GPSSpeedRef	Speed unit
15 GPSTrack Direction of movement 16 GPSImgDirectionRef Reference for direction of image 17 GPSImgDirection Direction of image 18 GPSMapDatum Geodetic survey data used 19 GPSDestLatitudeRef Reference for latitude of destination 20 GPSDestLatitude Latitude of destination (degree, minute, second) 21 GPSDestLongitudeRef Reference for longitude of destination 22 GPSDestLongitude Longitude of destination(degree, minute, second) 23 GPSBearingRef Reference for bearing of destination 24 GPSBearing Bearing of destination (degree, minute, second) 25 GPSDestDistanceRef Reference for Distance to destination 26 GPSDestDistance Distance to destination 27 GPSProcessingMethod Name of GPS Processing Method 28 GPSAreaInformation Name of GPS Area 29 GPSDateStamp GPS Date	13	GPSSpeed	Speed of GPS receiver
16 GPSImgDirectionRef Reference for direction of image 17 GPSImgDirection Direction of image 18 GPSMapDatum Geodetic survey data used 19 GPSDestLatitudeRef Reference for latitude of destination 20 GPSDestLatitude Latitude of destination (degree, minute, second) 21 GPSDestLongitudeRef Reference for longitude of destination 22 GPSDestLongitude Longitude of destination(degree, minute, second) 23 GPSBearingRef Reference for bearing of destination 24 GPSBearing Bearing of destination (degree, minute, second) 25 GPSDestDistanceRef Reference for Distance to destination 26 GPSDestDistance Distance to destination 27 GPSProcessingMethod Name of GPS Processing Method 28 GPSAreaInformation Name of GPS Area 29 GPSDateStamp GPS Date	14	GPSTrackRef	Reference for direction of movement
17 GPSImgDirection Direction of image 18 GPSMapDatum Geodetic survey data used 19 GPSDestLatitudeRef Reference for latitude of destination 20 GPSDestLatitude Latitude of destination (degree, minute, second) 21 GPSDestLongitudeRef Reference for longitude of destination 22 GPSDestLongitude Longitude of destination(degree, minute, second) 23 GPSBearingRef Reference for bearing of destination 24 GPSBearing Bearing of destination (degree, minute, second) 25 GPSDestDistanceRef Reference for Distance to destination 26 GPSDestDistance Distance to destination 27 GPSProcessingMethod Name of GPS Processing Method 28 GPSAreaInformation Name of GPS Area 29 GPSDateStamp GPS Date	15	GPSTrack	Direction of movement
18 GPSMapDatum Geodetic survey data used 19 GPSDestLatitudeRef Reference for latitude of destination 20 GPSDestLatitude Latitude of destination (degree, minute, second) 21 GPSDestLongitudeRef Reference for longitude of destination 22 GPSDestLongitude Longitude of destination(degree, minute, second) 23 GPSBearingRef Reference for bearing of destination 24 GPSBearing Bearing of destination (degree, minute, second) 25 GPSDestDistanceRef Reference for Distance to destination 26 GPSDestDistance Distance to destination 27 GPSProcessingMethod Name of GPS Processing Method 28 GPSAreaInformation Name of GPS Area 29 GPSDateStamp GPS Date	16	GPSImgDirectionRef	Reference for direction of image
19 GPSDestLatitudeRef Reference for latitude of destination 20 GPSDestLatitude Latitude of destination (degree, minute, second) 21 GPSDestLongitudeRef Reference for longitude of destination 22 GPSDestLongitude Longitude of destination(degree, minute, second) 23 GPSBearingRef Reference for bearing of destination 24 GPSBearing Bearing of destination (degree, minute, second) 25 GPSDestDistanceRef Reference for Distance to destination 26 GPSDestDistance Distance to destination 27 GPSProcessingMethod Name of GPS Processing Method 28 GPSAreaInformation Name of GPS Area 29 GPSDateStamp GPS Date	17	GPSImgDirection	Direction of image
20 GPSDestLatitude Latitude of destination (degree, minute, second) 21 GPSDestLongitudeRef Reference for longitude of destination 22 GPSDestLongitude Longitude of destination(degree, minute, second) 23 GPSBearingRef Reference for bearing of destination 24 GPSBearing Bearing of destination (degree, minute, second) 25 GPSDestDistanceRef Reference for Distance to destination 26 GPSDestDistance Distance to destination 27 GPSProcessingMethod Name of GPS Processing Method 28 GPSAreaInformation Name of GPS Area 29 GPSDateStamp GPS Date	18	GPSMapDatum	Geodetic survey data used
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23 GPSBearingRef Reference for bearing of destination 24 GPSBearing Bearing of destination (degree, minute, second) 25 GPSDestDistanceRef Reference for Distance to destination 26 GPSDestDistance Distance to destination 27 GPSProcessingMethod Name of GPS Processing Method 28 GPSAreaInformation Name of GPS Area 29 GPSDateStamp GPS Date	21	GPSDestLongitudeRef	Reference for longitude of destination
24 GPSBearing Bearing of destination (degree, minute, second) 25 GPSDestDistanceRef Reference for Distance to destination 26 GPSDestDistance Distance to destination 27 GPSProcessingMethod Name of GPS Processing Method 28 GPSAreaInformation Name of GPS Area 29 GPSDateStamp GPS Date	22	GPSDestLongitude	Longitude of destination(degree, minute, second)
25 GPSDestDistanceRef Reference for Distance to destination 26 GPSDestDistance Distance to destination 27 GPSProcessingMethod Name of GPS Processing Method 28 GPSAreaInformation Name of GPS Area 29 GPSDateStamp GPS Date	23	GPSBearingRef	Reference for bearing of destination
26 GPSDestDistance Distance to destination 27 GPSProcessingMethod Name of GPS Processing Method 28 GPSAreaInformation Name of GPS Area 29 GPSDateStamp GPS Date	24	GPSBearing	Bearing of destination (degree, minute, second)
27 GPSProcessingMethod Name of GPS Processing Method 28 GPSAreaInformation Name of GPS Area 29 GPSDateStamp GPS Date	25	GPSDestDistanceRef	Reference for Distance to destination
28 GPSAreaInformation Name of GPS Area 29 GPSDateStamp GPS Date	26	GPSDestDistance	Distance to destination
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	28	GPSAreaInformation	Name of GPS Area
30 GPSDifferential GPS Differential correction	29	GPSDateStamp	GPS Date
	30	GPSDifferential	GPS Differential correction

Fig.7



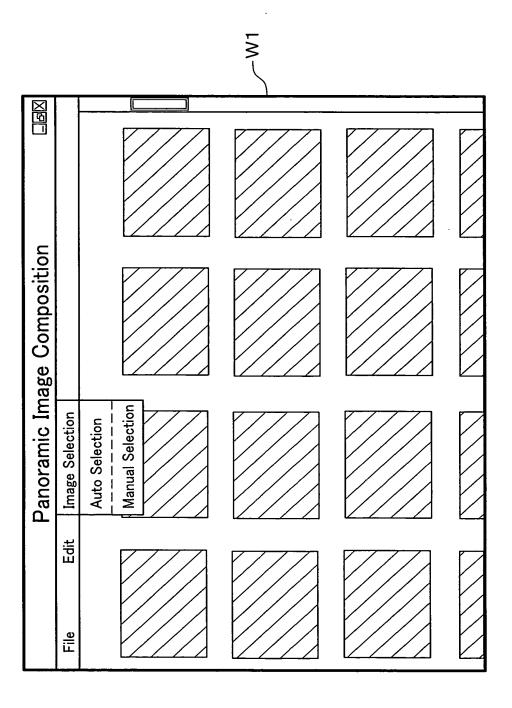


Fig.8

Fig.9(A)

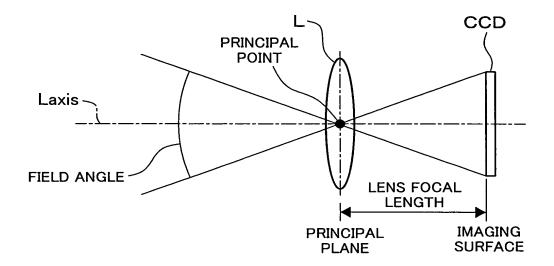


Fig.9(B)

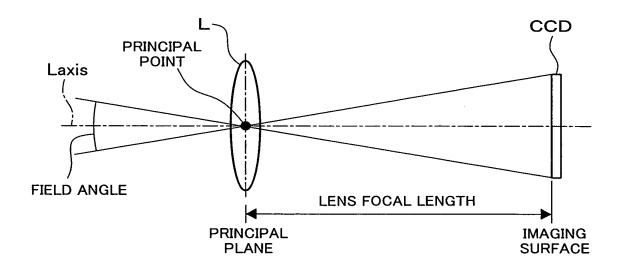


Fig.10(A)

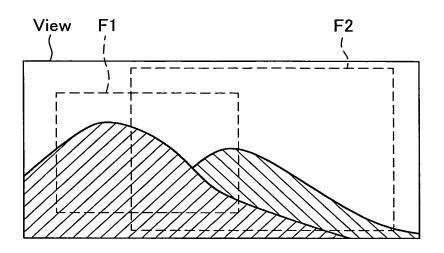
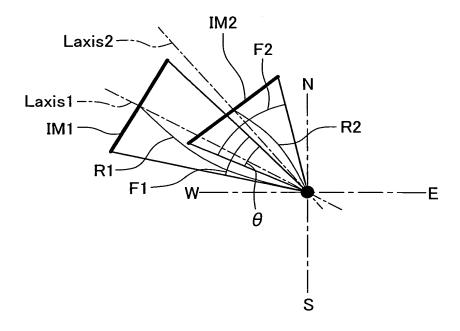


Fig.10(B)



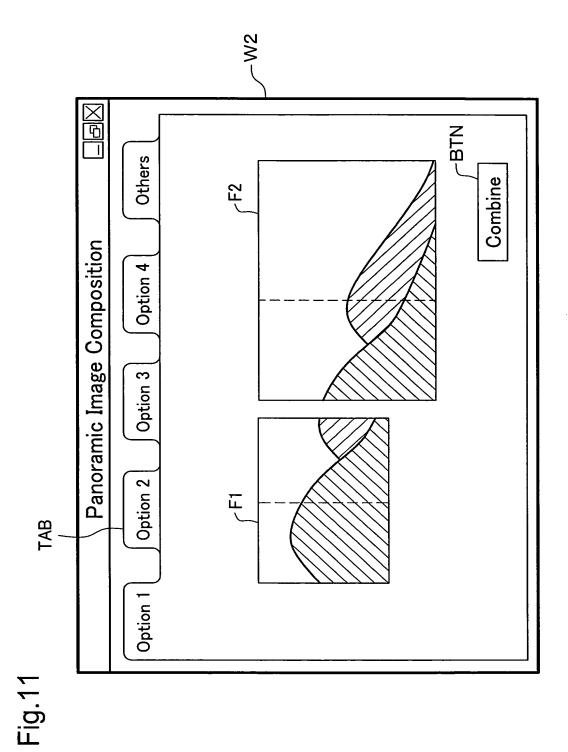


Fig.12(A)

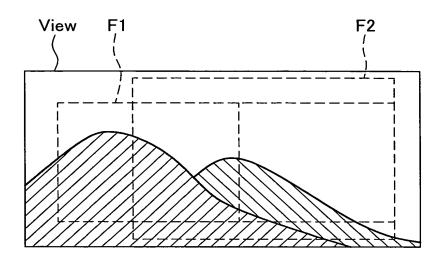


Fig.12(B)

